

TSOLOV, R.

Certain factors in malarial anemia. Isv. med. inst., Sofia 1 no.
64-230 1952. (OIML 24:2)

1. Prof. Doctor. 2. Propedeutic Internal Clinic (Director - Prof. Dr.
Iv. Yonkov) of Vulkov Gervenkov Medical Academy, Sofia.

IONKOV, I.; TSOLOV, R.; STANCHEV, A.; DOSKOV, I.; SHISHMANOVA, IU.;
BALCHEV, A.; PENEVA, M.; SUKIASIAN, Kh.; MATEV, M.; NIKOLOV, St.;
ATANASOV, E.; TODOROV, B.; STEFANOVA, A.

Clinical, pathophysiologic, and therapeutic aspects of tuberculous
exudative pleurisy. Nauch. tr. Med. akad. Chervenkov, Sofia 1 no.1:
117-137 1953.

1. Predstavena ot prof. Iv.Ionkov, zavezhdashch Katedrata po
propedevtika na vutreshnite bolesti.
(TUBERCULOSIS, PULMONARY, complications,
pleurisy, exudative)

TSOLOV, R., prof.

Remote results of Pavlov's sleep therapy in gastric and duodenal ulcers. Nauch. tr. Med. akad. Chervenkov, Sofia 1 no.1:139-148 1953.

1. Predstavena ot prof. Iv.Ionkov, zavezhdashch Katedrata po propedevtika na vutreshnite bolesti.

(PEPTIC ULCER, therapy,
sleep ther., results)
(SLEEP, therapeutic use,
peptic ulcer, results)

TSOLOV, R., prof.

Treatment of exudative pleurisy. Nauch. tr. Med. akad.
Chervenkov, Sofia 1 no.1:191-202 1953.

1, Predstavena ot prof. Ionkov, zavezhdashch Katedrata
po propedevtika na vutreshnite bolesti.

(PLEURISY, .

with effusions, ther.)

TSOLOV, R., prof.

Role of dental focal infection in the etiology of nephritis.

Stomatologia no.1:10-14 '54.

(REAL 3:7)

(FOCAL INFECTION,

*dent., causing nephritis)

(NEPHRITIS, etiology and pathogenesis,

*focal infect., dent.)

TSOLOV, R.; TODOROV, B.

Role of focal infection of dental origin in the etiology of internal diseases. Stomatologiya, Sofia no.5:265-268 1954.

1. Iz Katedrata po propedevtika navytreshnite bolesti pri Meditsinskata akademiia Vulko Chervenkov, Sofia.

(FOCAL INFECTION,

dent., in etiol. of various internal dis.)

(TEETH, diseases,

focal infect. in etiol. of various internal dis.)

BULGARIA/Human and Animal Physiology (Normal and Pathological). T-7
Pancreas.

Abs Jour : Ref Zhur - Biol., No 16, 1958, 75036

Author : Tsolov, R., Stefanova, Ant.

Inst : -

Title : Treatment of Diabetes with a New Enteral Antidiabetic.
Agent - Rastinon.

Orig Pub : Nauchni tr. Vissh. med. in-t Sofiya, Klinich. katedri,
1956 (1957), 4, No 1, 93-112.

Abstract : No abstract.

Card 1/1

TSOLOV, R.

Clinical aspects of disease caused by atomic bomb. Khirurgia,
Sofia 9 no.10:920-929 1956.

(ATOMIC WARFARE,
causing inj. (Bul))

IONIOV, I.; TSOLOV, R.; MATEV, M.

Cholecystitis at the Internal Propedeutic Clinic in Sofia. Suvrem. med.,
Sofia 8 no.6:65-66 1957.

1. Iz Propedevtichnata vutreshna klinika pri VMI; Sofia.
(CHOLECYSTITIS, statistics,
hosp. statist. (Bul))

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IONKOV, I.; TSOLOV, R.; MATEV, M.

Cholelithiasis at the Internal Propedeutic Clinic in Sofia. Suvrem. med.,
Sofia 8 no.6:67-69 1957.

1. Iz Propedevtichnata vutreshna klinika na VMI; Sofia (Direktor:
prof. I. Ionkov).

(CHOLELITHIASIS, statistics,
hosp. statist. (Bul))

TSOLOV, R.; MATEV, M.; PENEVA, M.

Result of investigation of gastric and duodenal ulcer in Bulgaria. Suvrem. med., Sofia 8 no.6:70-71 1957.

1. Iz Propedevtichnata vutreshna klinika pri VMI; Sofia (Direktor: prof. I. Ionkov).

(PEPTIC ULCER, statistics,
in Bulgaria (Bul))

TSOLOV, R.; MATEV, M.; PENEVA, M.

Certain data on cholelithiasis in Bulgaria. Suvrem. med., Sofia
8 no.6:71-72 1957.

1. Iz Propedevtichnata vutreshna klinika pri VMI; Sofia.
(CHOLELITHIASIS, statistics,
in Bulgaria (Bul))

TSOLOV, R.; MATEV, M.; PENEVA, M.

Certain data on cholecystitis in Bulgaria. Suvrem. med., Sofia 8 no.6:
72-73 1957.

1. Iz Propedevtichnata vutreshna klinika pri VMI; Sofia.
(CHOLECYSTITIS, statistics,
in Bulgaria (Bul))

IONKOV, Iv.; TSOLOV, R.; DOSKOV, I.; SHISHMANOVA, Iul.; ANDREEV, I.;
NIKOLOV, St.; SUKIASIAN, Kh.; MATEV, M.; ATANASOV, E.;
TODOROV, B.; STEFANOVA, A.; PETRUNOV, St.; TSVETKOV, D.;
ORESHKOV, V.; SIMEONOV, S.; PATARINSKI, D.; AVRAMOVA, N.;
MALCHEV, Kh.

Biochemical changes in patients with influenza during the
1959 epidemic. Nauch. tr. vissh. med. inst. Sofia 41 no.7:
9-14 '62.

1. Predstavena ot prof. I. Ionkov.

(INFLUENZA)	(GAMMA GLOBULIN)	(IRON METABOLISM)
(BILIRUBIN)	(BICARBONATES)	(BLOOD CHOLESTEROL)
(UREA)	(BLOOD SUGAR)	(PROTEIN METABOLISM)
(POTASSIUM)	(BLOOD PROTEINS)	(SODIUM)
(17-KETOSTEROIDS)	(SODIUM CHLORIDE)	

TSOLOV, Radol, prof. d-r

Accomplishment in the field of public health during the
20 years of people's rule in Bulgaria. Nauch zhivot 7 no.3;
7-9 JLS '64.

TSOLOV, Radol, prof. d-r

Balkan Medical Weeks, scientific congresses of international importance. Nauch zhivot 7 no.3:18-19 J1-S '64.

1. Vice-Chairman, Bulgarian Section of the Balkan Medical Union.

TSOLOV, R.

On the clinical characteristics of "Vratza nephritis". Nauch.
tr.vissh.med. inst. Sofiia 42 no.6:1-14 '63

1. Predstavena ot prof. dr. Iv. Ionkov, rukovoditel na Katedrata
po propedevtika na vutreshnite bolesti.

*

TSOLOV, Radol, prof. d-r.

People's University of Medicine. Nauch zhivot 6 no.2:16
Ap-Je'63.

1. Zam.-predsedatel na Sektsiia meditsina i stomatologiya
pro SNR, chlen na Redkolegiia, "Nauchen zhivot".

TSOLOV, R.; MATEV, M.

Use of some antibiotics in the treatment of bronchiectasis
and pulmonary abscesses. Suvr. med. 14 no.5:27-29 '63.

(ANTIBIOTICS) (LUNG ABSCESS)
(BRONCHIECTASIS)

TSOLOV, R.

Experimental studies on the toxic effects of nivalina. Nauch.
tr. vissh. med. inst. Sofia 41 no.7:49-58 '62.

1. Predstavena ot prof. P. Nikolov.
(GALANTHAMINE)

TSOLOV, R.

Experimental studies on the effect of Breznik mineral water in natural, diluted and vitamin C-supplemented form on erythropoiesis. Nauch. tr. vissh. med. inst. Sofia 41 no.7: 59-68 '62.

1. Predstavena ot prof. P. Nikolov.
(MINERAL WATERS) (ASCORBIC ACID)
(ERYTHROPOIESIS)

TSOLOV, Radol, prof. d-r

Prof. Vasil Mollov; obituary. Nauch zhivot 7 no. 1:18-19
Ja-Mr '64.

1. Member of the Board of Editors, "Nauchen zhivot".

BULGARIA

R. TSOLOV and M. MATEV, Department of Propedeutics in Internal Medicine of Medical College (Katedra po propedevtika na vutreshnite bolesti pri VMI) Head (rukovoditel na katedrata) Prof Iv. IONKOV, Sofia.

"Use of Some Antibiotics in Bronchiectasis and Pulmonary Abscess."

Sofia, Suvremenna Meditsina, Vol 14, No 5, 1963; pp 27-29.

Abstract: Data on 327 patients with bronchiectasis and 22 with pulmonary abscesses, 1950-1961; treatment with penicillin and streptomycin; 12 of the bronchiectatic patients succumbed. Eleven had urticarial side effects; 269 were discharged well and 52 improved.

1/1

TSOLOV, Radol, prof.

Endemic nephropathy, a social calamity in the Vratsa District. Nauch
zhivot 6 no.4:8-10 O-D '63.

1. Chlen na Redkolegiia, "Nauchen zhivot".

TSOLOV, T.

The budget for 1955 and development of our industry. p.1.
(Vol. 4, No. 2, 1955.) (TEZHKA PROMISHLENOST.)

SO: Monthly List of East European Accession, (EEAL), LC, Vol. 4, No. 9,
Sept. 1955, Uncl.

TSOLOV, Tano

The Miner's Day and the Fulfillment of the Resolution of the Sixth Party Congress by Our Mining Industry, Mine Prospectors, and Mine Construction Organizations. Minno Delo (Mining), #5:1: Sept-Oct 55

TSOLOV, T.

Tasks of heavy industry during 1957.

P. 1, (Tezhka Promishlenost) Vol. 6, no. 1, Jan. 1957, Sofia, Bulgaria

SO: Monthly Index of East European Accessions (EEAI) Vol. 6, No. 11 November 1957

TSOLOV, T.

Address by the Minister of Heavy Industry delivered in Varna in commemoration of 50th anniversary of Bulgarian shipbuilding. Development of nonferrous metallurgy in Bulgaria

pages 1-3 (TEZHKA PROMISHLENOST) Vol. 6, no. 6, June 1957,
Sofia, Bulgaria

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3,
March 1958

TSOLOV, T.

"Tasks of heavy industry for 1957."

p.1 (Minno Delo, Vol. 12, no.1, Jan./Feb. 1957, Sofia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 8, August 1958

TSOLOV, T.

"Miner's Day, and achievements of our mining industry during the Second Five-Year Plan."

p. 1 (Minno Delo, Vol. 12, no. 1, 1957, Sofia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 9,
September 1958

TSOLOV, T.

"Basic tasks of heavy industry during 1958."

p.1 (Tezhka Promishlenost, Vol. 7, no. 1, Jan. 1958, Sofia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 8, August 1958

TSOLOV, T.

For further successes in the development of the machinery industry and the chemical industry. p. 4

Teknika Vol. 7, No. 4, Apr. 1958. Sofia, Bulgaria.

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 10,
Oct. 58

TSOLOV, T.

"Basic tasks of heavy industry during 1958."

p. 1 (Minno Delo, Vol. 13, no. 1, 1958, Sofia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 9,
September 1958

TSOLOV, T.

"Some basic tasks in relation to development of the Bulgarian mining industry and metallurgy."

p. 1 (Minno Delo, Vol. 13, no. 2, 1958, Sofia, Bulgaria)

Monthly Index of East European Accessions (MEAI) LC, Vol. 7, no. 9,
September 1958

TSOLOV, T.

TECHNOLOGY

Periodical: MINNO DELO. Vol. 13, no. 4, July/Aug. 1958.

TSOLCV, T. Directives of the 7th Congress of the Bulgarian Communist Party and the tasks of the mining industry, its geologic research work, and metallurgy during the third Five-Year Plan. p. 1.

Monthly List of East European Accession (EEAI), LC., Vol. 8, no. 2
February 1959, Unclass.

TSOLOV, T.

"The economic jump and the further development of electric-power production."

ELEKTROENERGIJA, Sofia, Bulgaria, Vol. 10, no. 4, Apr. 1959.

Monthly list of East Europe Accessions (EEAI), LC, Vol. 8, No. 6, ^{Sept.} Jun 59,
Unclas

TSOLOV, T.

"The economic jump in the development of Bulgaria and its geologic research work."

MINNO DELO, Sofia, Bulgaria, Vol. 14, no. 2, Mar./Apr. 1959.

Monthly list of East Europe Accessions (EEAI), LC, Vol. 8, No. 6, ^{Sept.} Jun 59,
Unclas

TSOLOV, Tano

Main tasks and ways for the fulfilment and overfulfilment of the Plan for 1962. Min delo 17 no.1:1-7 Ja '62.

1. Sekretar na Tsentralnija komitet na Bulgarskata komunisticheska partiia,

VIKTOROV, Iv.; PATRASHKOV, T.; TSOLOV, Ts.

Thromboembolic complications in urology. Khirurgiia (Sofia)
18 no.3:334-341 '65.

1. Vissh veterinarno-meditsinski institut, Katsdra po voennopoleva
khirurgiia (nachalnik: prof. G. Krustinov).

VIKTOROV, I., dotsent; PATRASHKOV, T.; TSOLOV, TS.; NAKOV, E.

Cytodiagnosis in tumors of the bladder. Urologiia no.6:
39-41 N-D '63. (MIRA 17:9)

1. Iz urologicheskoy kliniki pri kafedre voyenno-polevoy
khirurgii (nachal'nik - prof. G. Krystanov) Vysshego voyenno-
meditsinskogo instituta v Sofii, Bolgariya.

ANDREEV, T., dots.; KUSKOVA, S.; LAMBREV, St., dots.; TSOLOV, TS.

Function tests, indications and results of treatment of
prostatic adenoma. Khirurgiia 17 no.2:239-240 '64.

VIKTOROV, Iv.; MIRCHEV, M.; TSOLOV, TS.; PATRASHKOV, T.

Combined wounds of the abdomen, pelvis and extremities.
Khirurgia 15 no.9/10:875-878 '62.

1. Iz Visshia voennomeditsinski institut.
(ABDOMINAL INJURIES) (PELVIS)
'(LEG INJURIES)

ATANASOV, N.; KARAPANDOV, M.; TSOLOV, TS.

Tuberculosis of the bladder. Khirurgia 15 no.11:1014-1017 '62.

(TUBERCULOSIS UROGENITAL)

ZHELEZAROV, A.; TSOLOV, V.

The cactus. Prir i znanie 13 no.6:2-3 Je '60.
(Cactus)

(EEAI 10:1)

TSOLOV, V.: ZHELEZAROV, A.

Cuscuta. Prir i znanie 14 no.2:7-9 '61.
(Cuscuta)

(KEAI 10:7)

~~TSOLOV, V.~~

TECHNOLOGY

Periodical: RATSIONALIZATSIIA. Vol. 8, no. 6, June 1958.

TSOLOV, V. Studying cranes constructed in Bulgaria for purpose of their
standardization. p. 31.

Monthly List of East European Accession (EEAI), LC., Vol. 8, no. 2,
February 1959, Unclass.

TENEV, St.; GATSINSKI, P.; TSOLOVA, L.

On the problem of so-called "dumping syndrome". Khirurgiia (Sofia)
14 no.11:1015-1023 '61.

1. Vissh meditsinski institut, Sofiia katedra po bolnichna khirurgiia
Zav. katedrata: prof. St. Dimitrov.

(GASTRECTOMY compl)

TSOL'VEG, N. K., Docent

Coal Mines and mining.

Selecting the length of stopes in deep mines by taking the factor of ventilation into account. Ugol' 27 no. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1953/2Uncl.

TSOL'VEG, N.K., dotsent

Practice in the Saar mines on degasification of accessory minerals
in coal mines (From: "Revue de l'Industrie Minerale," no.600, 1953)
Ugol' 30 no.9:46-47 S'55. (MIRA 8:12)

1. Donetskii industrial'nyy institut
(Saar--Mine gases)

TSOL'VEG, N.K., kandidat tekhnicheskikh nauk.

Strengthen the connections of institutions of higher education
with industry. Bezop.truda v prom. 1 no.7:7-8 J1 '57. (MIRA 10:7)

1. Donetskii industrial'nyy institut im. N.S. Khrushcheva.
(Accidents--Prevention--Study and teaching)

TSOMAKION, B. F.
SA

338.24 : 621.318.1.013

4537. Investigation of non-reversible sudden changes of magnetization. B. F. TSOMAKION AND V. P. IVLEV. Dokl. Akad. Nauk, USSR, 76 (No. 2) 205-8 (1951) in Russian.

The phenomenon of sudden discontinuous changes of magnetism in a ferromagnetic object when the intensity of the applied magnetic field is varied slowly and continuously ("Barkhausen" effect) is investigated experimentally, a new method being described, capable of higher sensitivity than heretofore. The results establish the average volume of the nickel domain to be $1.37 \times 10^{-6} \text{ cm}^3$, and the instrument is able to differentiate between domains separated by $< 0.5 \times 10^{-6} \text{ cm}^3$. It consists essentially of a single-stroke pulse generator (thyatron) used as a comparator and alternatively with the search coil (which is placed around the investigated object and itself within a magnetizing coil), switched to an amplifier and connected either to a mirror galvanometer or a recording oscillograph. A. LANDMAN (R)

Pedagogical Inst. Krasnoyarsk

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

TSOMAYA, A.A., *inzh.*

Measures for the improvement of the ~~construction~~ of NB-406B traction engines. Elek. i tepl. tiaga 7 no.11:14-15 N '63. (MIRA 17:2)

TSOMAYA, B.Sh.

Episodical and stationary glaciological observations. Trudy Tbil.
NIGMI no.3:109-117 '58. (MIRA 1:10)

1. Tbilisskiy nauchno-issledovatel'skiy gidrometeorologicheskii
institut.

(Caucasus--Glaciers)

SEMENSKAYA, Ye.M.; ABAKELIYA, TS. I.; LARIONOVA, N.G.; TSOMAYA, I.S.

Effect of some vitamins on the development and course of
experimental leucosis in mice. Soob. AN Gruz. SSR 33 no. 2:
461-468 F '64. (MIRA 17:9)

TSOMAYA, I. V.

Tsomaya, I. V. - "Mass treatment of sheep with certain chemical preparations as a prophylactic treatment against haecosporidia," Trudy Gruz. nauch.-issled. vet. opyt. stantsii, Vol. X, 1948, pp. 126-32, (Resume in Georgian)

SO: U-4934, 29 Oct 53, (Letopis 'Zhurnal 'nykh Statey, No. 16, 1949).

Tsomaya, I.V.
: USSR F
: Zoological - Parasitic Protozoa
Abs. Jour : Ref Zhur - Biol., No.19, 1958, 86275
Author : Matikashvili, N.V.; Tsomaya, I.V.
Institut. : Georgian Scientific Research Veterinary Institute
Title : Variability of Hemosporidia in Splenectomized
Animals
Orig Pub. : Tr. Gruz. N.-I. Vet. In-ta, 1955, Vol.11, 197-200
Abstract : no abstract

Card: 1/1

TSOMAYA, I.V., kand.veter. nauk

Active immunization of sheep in babesiosis. Veterinariia 37 no.3:31
Mr '60. (MIRA 16:6)

1. Gruzinskiy nauchno-issledovatel'skiy institut zhivotnovodstva.
(Piroplasmosis, Ovine)

TAVADZE, F.N.; BAYRAMASHVILI, I.A.; TSAGAREYSHVILI, G.V.; TSOMAYA, K.P.;
ZOIDZE, N.A.

Structure of crystalline boron grown from the melt. Kristallografiia
9 no.6:918-920 N-D '64. (MIRA 18:2)

1. Gruzinskiy institut metallurgii.

TSOMAYA, K.P.; SHVANGIRADZE, R.R.

Phenomena observed under the effect of mechanical dispersion of
crystalline boron. Fiz. met. i metalloved. 10 no.5:791-792 N '60.
(MIRA 14:1)

(Powder metallurgy)

(X rays--Scattering)

"APPROVED FOR RELEASE: 03/14/2001

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CIA-RDP86-00513R001757130002-5"

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APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001757130002-5"

TsOMAYA, K. P.

137-1958-2-2762

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 79 (USSR)

AUTHORS: Mitrenin, B. P., Troshin, N. Ye., Tsomaya, K. P., Vlasenko, V. A.,
Gubanov, Yu. D.

TITLE: Exploring the Possibility of Obtaining Homogeneous Germanium-Silicon Alloys Through a System of "Zonal Fusion" (Issledovaniye vozmozhnosti polucheniya gomogennykh splavov germaniya s kremniyem s pomoshch'yu zonnoy plavki)

PERIODICAL: V sb.: Vopr. metallurgii i fiz. poluprovodnikov. Moscow, AN SSSR, 1957, pp 59-69

ABSTRACT: A study was made of the feasibility of and the conditions under which homogeneous Ge-Si alloys could be obtained from ceramet billets of uniform composition (containing 5:25 atom-percent Si) through a system of "zonal fusion". The zonal fusion was accomplished in an apparatus consisting of a tube (15 mm in diameter) made from transparent quartz; the tube was connected through a pressure retaining lock to a vacuum (10^{-4} - 10^{-5} mm Hg). A graphite or quartz boat containing a specimen was placed in the tube. Traveling along the tube at a speed of 5-15 mm/hr was a Silit resistor. The length of the fusion zone was 15-20 mm.

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137-1958-2-2762

Exploring the Possibility of Obtaining Homogeneous Germanium-Silicon (cont.)

Under a pressure of 3.5 tons/cm^2 the specimens were pressed from well mixed Ge and Si powders into the shape of rods having a cross-sectional area of $9 \times 9 \text{ mm}^2$ and a length of 95 mm; then they were sintered at 800° . Used in the experiments were a Ge with a resistivity of $\sim 1 \text{ ohm/cm}$ and an industrial Si that had been washed in acids. X-ray and microscopic studies of the resulting ingots revealed that, at a speed of travel of the band $< 5-7 \text{ mm/hr}$, this system of band heating turned out a homogeneous Ge-in-Si solid solution (containing from 2.25 to 40 atom-percent in the form of polycrystalline ingots. To obtain a specimen of significant length of the uniformly constituted solid solution and to build up the grains of the alloy to 4-6 mm, the fusion zone had to be moved back and forth over the specimen several times at a speed of 5-7 mm/hr.

Yu.Sh.

1. Germanium alloys--Formation
2. Ceramics--Applications
3. Alloys--Fusion
4. Ingots--Test methods
5. Ingots--Test results

Card 2/2

85972

24.7200

1144, 1043, 1160

S/126/60/010/005/026/030
E073/E535

AUTHORS: Tsomaya, K. P. Shvangiradze, R. R.

TITLE: On Phenomena Observed During Mechanical Dispersion of Crystalline Boron ✓

PERIODICAL: Fizika metallov i metallovedeniye, 1960, Vol.10, No.5, pp.791-792

TEXT: The phenomenon described in this paper consists in the cessation of the X-ray scattering, which is characteristic to the crystalline state of boron in the disperse state. The specimens were obtained in the form of cylindrical rods up to 8 mm diameter by thermal decomposition of BBr_3 on hot tantalum or tungsten wires (the work for obtaining the elementary boron was carried out by V. I. Khachishvili and Ya. V. Asatiani). Depending on the experimental conditions, polycrystalline boron of various modifications was obtained. The X-ray diffraction patterns, obtained by the powder method directly from large diameter rods, contained blurred interference lines which were not very suitable for precision measurements. For obtaining good quality pictures, the rods were transformed into powder by hitting with an impact load. A part of the thus obtained powder was crushed into finer powder. The

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E073/E535

On Phenomena Observed During Mechanical Dispersion of Crystalline Boron

diffraction patterns of the powder prepared by impact crushing differed from those of large diameter rods only by the sharpness of the interference lines. On the X-ray diffraction patterns of the powder, which had been further crushed in a mortar (10 to 20 min), there was a complete absence of lines characterizing the crystalline state of boron but there were some lines characterizing the material of the mortar and an interference halo, which is usually characteristic for amorphous substances. Microphoto recordings of Debye patterns of two differing modifications of boron prior to crushing in a mortar (a,b) and after crushing in a ferrochromium mortar (B,2) are reproduced; in the latter case interference lines of the mortar material appear on the X-ray diffraction patterns. To exclude errors caused by contamination of boron with the material of the mortar and the influence of oxidation of the powder during dispersion, treatment with hydrochloric acid was applied and chemical and spectrum analyses were made to determine the contents of metallic admixtures. The chemical analysis revealed the presence of free boron; the results of spectrum analysis are given in a table

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(these were obtained by T. A. Mozgova, N. A. Makharashvili and N. G. Tskiriya). After chemical purification only a diffusion halo was observed on the powder diffraction patterns. Electron diffraction investigation of the powder (carried out by B. V. Aleksandriya) also showed absence of any diffraction pattern that is characteristic for the crystalline state. Apparently this observed effect is not caused simply by an increase in the degree of dispersion of the preparations; a decrease in the crystalline dimensions during mechanical dispersion down to values which are unsuitable for electron diffraction investigations is not considered possible. The authors believe that the observed effect is a summary effect of the increased dispersion and the deep distortion and breaking up of the lattice of particles which are still sufficiently large for X-ray structural study of the dimensions. It is likely that this phenomenon is related to the disorder effect of the crystal lattice of graphite in the sense of approaching the structure of amorphous modifications of carbon (Ref.1). However, in the case of graphite, a considerable effect

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is obtained during long duration crushing in absence of air, the adsorbed components of which change appreciably the character of breaking up of graphite crystals and prevent achieving small particle dimensions (Refs.2 and 3). In the case of boron, a considerable breaking up of the crystalline structure is obtained within a very short time (10 to 20 sec) of mechanical crushing in air. The ability of the lattice to become disordered during mechanical action is obviously associated with the nature of the substance. This effect observed for boron was not observed under equal conditions on other single and polycrystalline substances, as for instance, Si, germanium, boron carbide etc. Insufficient experimental material is available at present to explain fully this effect. Acknowledgments are made to I. G. Gverdtsiteli for his interest and advice and to K. I. Yelistratova for her participation in the work. There are 1 figure, 1 table and 3 references: 2 Soviet and 1 English.

SUBMITTED: April 12, 1960

Card 4/4

TSOMAYA, Ketevena Vasil'yevna (Sci Res Inst of Psychiatry in Asatiani, ^{of the} Min of Health
Georgian SSR) for Doc Med Scion the basis of dissertaton defended 1 July 58 in
Council of Tbilisi State Med Inst, entitled "Clinical experimental data ~~from~~ ^{on} the
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Socb. AN Gruz. SSR 33 no.1:247-250 Ja '64. (MIRA 17:7)

TSOMAYA, N.N.

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Soob. AN Gruz. SSR 38 no.2:487-489 My '65. (MIRA 18:9)

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1. Akademiya sel'skokhozyaystvennykh nauk GruzSSR, Institut zemledeliya, Tbilisi. Predstavleno chlenom-korrespondentom Akademii G.I.Shkhvatsabaya.

(Potatoes) (Harvesting machines)

TSOMAYA, O.Sh.

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1. Nauchno-issledovatel'skiy institut zemledeliya Ministerstva
sel'skogo khozyaystva GruzSSR, Gardabani. Predstavleno chlenom-
korrespondentom Akademii G.Ya.Shkhvatsabaya.
(Potato digger)

TSOMAYA, S.V.; VOL'SKIY, V.F.

[Novyi Afon. Tbilisi, Sabchota Sakartvelo, 1958. 59 p.
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(AKHALI-AFCNI--HEALTH RESORTS, WATERING PLACES, ETC.)

TSOMAYA, T.I.

On foehn in the Rioni Valley. Trudy Geog. ob-va Gruz. SSR 5:173-177
'59. (MIRA 13:11)

(Rioni Valley--Foehn)

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 SETANINOV, G.T., professor; BOSHNO, L.V.; ALISOV, B.P.; BIRYUKOV,
 N.N.; GAL'TSOV, A.P.; GRIGOR'YEV, A.A., akademik; EYGENSON, M.S.,
 professor; MURETOV, N.S.; KHROMOV, S.P.; BOGDANOV, P.H.; LEBEDEV,
 A.N.; SOKOLOV, V.N.; YANISHEVSKIY, Yu.D.; SAMOYLENKO, V.S.; USMA-
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 VA, L.R.; POKROVSKAYA, T.V.; BAGDASARYAN, A.B.; ORLOVA, V.V.; RU-
 BINSHTEYN, Ye.S., professor; MILEVSKIY, V.Yu.; SHCHERBAKOVA, Ye.Ya.;
 BOCHKOV, A.P.; ANAPOL'SKAYA, L.Ye.; DUNAYEVA, A.V.; UTESHEV, A.S.;
 HUDNEVA, A.V.; RUDENKO, A.I.; ZOLOTAREV, M.A.; NERSESYAN, A.G.;
 MIKHAYLOV, A.N.; GAVRILOV, V.A.; TSOMAYA, T.I.; DEVIATKOVA, A.M.;
 ZAVARINA, M.V.; SHMETER, S.M.; BUDIKO, N.F., professor.

Discussion of the report (in the form of debates) [of the current
 state climatological research and methods of developing it]. Inform.
 sbor.GUGMS no.3/4:26-154 '54. (MIRA 8:3)

1. Chlen-korrespondent Akademii nauk SSSR (for Fedorov). 2. Glavnaya
 geofizicheskaya observatoriya im. A.I.Voeykova (for Predtechenskiy,
 Lebedev, Yanishevskiy, Isayev, Rakipova, Pokrovskaya, Orlova, Rubin-
 shteyn, Budyko, Shcherbakova, Anapol'skaya, Dunayeva, Rudneva, Gavrilov,
 Zavarina). 3. Ukrainskiy nauchno-issledovatel'skiy gidrometeorologiches-
 kiy institut (for Buchinskiy).

(Continued on next card)

FEDOROV, Ye.Ye., professor; PREDTECHENSKIY, P.P., and others.

Discussion of the report (in the form of debates) [of the current state climatological research and methods of developing it]. Inform. sbor. GUGMS no.3/4:26-254 '54. (Card 2) (MIRA 8:3)

4. Vsesoyuznyy institut rastenievodstva (for Selyaninov, Rudenko).
5. Bioklimaticheskaya stantsiya Kislevodsk (for Boshno). 6. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova (for Alisov).
7. Ministerstvo putey soobshcheniya SSSR (for Biryukov). 8. Institut geografii Akademii nauk SSSR (for Gal'tsov, Grigor'yev). 9. Geofizicheskaya komissiya Vsesoyuznogo geograficheskogo obshchestva (for Eygenzon). 10. Ministerstvo elektrostantsiy i elektropromyshlennosti SSSR (for Muretov). 11. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova (for Khromov). 12. Tsentral'nyy nauchno-issledovatel'skiy gidrometeorologicheskii arkhiv (for Sokolov, Zolotarev). 13. Gosudarstvennyy okeanograficheskii institut (for Samoylenko). 14. Tsentral'nyy institut prognozov (for Usmanov, Sapozhnikova). 15. Institut geografii Akademii nauk SSSR i Tsentral'nyy institut kurortologii (for Chubukov). 16. Nauchno-issledovatel'skiy institut imeni Sechenova, Yalta (for Trotsenko). 17. Arkticheskii nauchno-issledovatel'skiy institut (for Vangengayn).

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18. Dal'nevostochnyy nauchno-issledovatel'skiy gidrometeorologicheskii institut (for Sokolov).
19. Institut geologii i geografii Akademii nauk Litovskoy SSR (for Styro).
20. Rostovskoe upravlenie gidrometsluzhby (for Temnikova).
21. Morakoy gidrofizicheskii Institut Akademii nauk SSSR (for Dmitriyev).
22. Vsesoyuznyy institut rasteniyevodstva (for Malyugin).
23. Akademiya nauk Estonskoy SSR (for Liedemaa).
24. Akademiya nauk Armyanskoy SSR (for Bagdasaryan).
25. Leningradskiy gidrometeorologicheskii institut (for Milevskiy).

(Continued on next card)

FEDOROV, Ye.Ye., professor; PREDTECHENSKIY, P.P., and others.

Discussion of the report (in the form of debates) [of the current state climatological research and methods of developing it]. Inform.sbor. (MLBA 8:3)
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26. Gosudarstvennyy gidrologicheskiy institut (for Bochkov). 27. Kazhskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (for Uteshev). 28. Upravlenie gidrometaluzhby Armyskoy SSR (for Nor-sesyan). 29. Leningradskoye upravleniye gidrometsluzhby (for Mikhaylov, Devyatkov). 30. Tbilisskiy gosudarstvennyy universitet (for Tsomaya). 31. TSentral'naya aerologicheskaya observatoriya (for Shmeter).
(Climatology)

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[Restoration and development of the national economy of South Ossetia; collected documents and materials, 1921-1929] Vosstanovlenie i razvitie narodnogo khoziaistva Iugo-Osetii; sbornik dokumentov i materialov, 1921-1929 gg. Pod red. V.A.TSomaia. Sost. I.N.TSkhovrebov i dr. Stalinir, Gosizdat Iugo-Osetii, 1960. 560 p. (Istoriia Iugo-Osetii v dokumentakh i materialakh, 1921-1958 gg., no.1)
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1. Akademiya nauk Gruzinskoy SSR, Tiflis. Yugo-Osetinskiy nauchno-issledovatel'skiy institut, Stalinir.
(Ossetia--Economic conditions)

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Glacier movement in the Caucasus. Trudy Tbil. NIGMI no.7:
133-140 '60. (MIRA 14:8)
(Caucasus—Glaciers)

TSOMAYA, V.Sh.; KISIN, I.M.

Relationship between glacier ablation and the amount of moraine
materials on their surface. Trudy Tbil.NIGMI no.8:63-67 '61.
(MIRA 15:3)

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TSOMAYA, V.Sh.

Effect of snow reserves on the dimensions of a spring
flood. Trudy TbilNIGMI no.17:99-110 '65. (MIRA 18:11)

TSOMAYA, V.Sh.

Regime of snow cover during the period of snow melting.

Trudy ZakNIGMI no.18:108-118 '65.

(MIRA 19:1)

TSOMAYA, V.Sh.

Present growth of the glaciers of the Kazbek glaciation.
Trudy ZakNIGMI no.19:44-48 '65. (MIRA 18:12)

TSOMAYA, V.Sh.

Dependence of the area of glaciers and the coefficient of glaciation
irregularity on physiogeographic conditions. Trudy TbilMGMI no.13:
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1. Zakavkazskiy nauchno-issledovatel'skiy gidrometeorologicheskiy
institut.

TSCMAYA, V.Sh.; ABDUSHELISHVILI, K.L.

Methodology of forecasting the descent of avalanches of freshly
fallen snow depending on meteorological factors. Trudy TbilNIGMI
no.13:93-99 '63. (MIRA 18:8)

1. Zakavkazskiy nauchno-issledovatel'skiy gidrometeorologicheskii
institut.

TSOMAYA, V.Sh.

Some features of the radiation regime of the surface of melting
glaciers of the Caucasus; based on the example of the Gergeti
and Yugo-Vostochnyy Glaciers. Trudy TbilNIGMI no.15:129-136 '64.
(MIRA 18:10)

TSOMAYA, V.Sh.

Calculating the runoff of glacier-fed rivers of the Caucasus. Trudy
Tbil.NIGMI no.9:170-175 '61. (MIRA 15:3)

1. Tbilisskiy nauchno-issledovatel'skiy gidrometeorologicheskiy
institut.

(Caucasus--Runoff)

TSOMAYA, V.Sh.

Characteristic features of the recession of glaciers in the Caucasus.
Trudy Tbil.NIGMI no.9:130-135 '61. (MIRA 15:3)

1. Tbilisskiy nauchno-issledovatel'skiy gidrometeorologicheskiy
institut.
(Caucasus--Glaciers)

TSOMAYA, V.Sh.; KISIN, I.M.

Deglaciation in the Caucasus. Uch.zap. AGU. Geol.-geog.ser.
no.6:41-49 '59. (MIRA 15:9)
(Caucasus--Glaciers)

TSOMAYA, V. SH.

SOV/50-59-2-14/25

Khaladze, G. N.

3(7)
AUTHOR:

TITLE:

PERIODICAL:

ABSTRACT:

Scientific Meeting at the Tbilisi Scientific Research Institute of Hydrometeorology (Nauchnaya sessiya v Tbiliskom nauchno-issledovatel'skom gidrometeorologicheskom institute)

Meteorologiya i gidrologiya, 1959, No 2, pp 70 - 71 (USSR)

In May 1959 the Tbiliskiy nauchno-issledovatel'skiy gidrometeorologicheskii institut (Tbilisi Hydrometeorological Scientific Research Institute) held a meeting in which the following representatives participated: Representatives of the Tsentral'nyy institut prognozov (Central Forecasting Institute), Glavnyaya geofizicheskaya observatoriya (Main Geophysical Observatory), and the local administrations of the hydrometeorological services of the Transcaucasian Republics. On the occasion of the fifth anniversary of the Tbilisi NIGMI the director of the Institute V. P. Kozlovskiy held a speech commemorating the event. Dr. P. Pogreban (Zür) spoke on the character of temperature distribution and the circulation of the atmosphere above the Antarctica. I. I. Epimashvili and Ye. A. Mepetvishvili spoke on the characteristics of the

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circulation processes above Transcaucasia. M. A. Zakharchuk reported on the verification of synoptical processes carried out by him. M. A. Kozlovskiy read two papers on theoretical questions of hydrometeorology. V. M. Giklashvili and V. P. Lomnadze spoke on the present state of the fight against hail. E. T. Kharchilava spoke on great amounts of precipitation on East Georgia. L. Z. Kartvelishvili spoke on meteorological visibility in cloudbursts. Ye. A. Epimashvili (GGO) on the meteorological visibility in the case of dew in Georgia in the course of 24 hours. E. V. Sukhishvili on the wind energy reserves of Georgia. Sh. V. Kozlovskiy on the radiation and heat balances in the alpine zone of the Caucasus. Ye. R. Dvali on the radioactivity of the atmosphere in Tbilisi and Pukheti. Ye. A. Tsutsiskiridze on the albedo of different natural surfaces. Sh. G. Gvatskheli (GOMS of Tbiliskaya SSR) on the ground temperature conditions in Tbilisi. V. Sh. Tsomaya on the method developed by him for forecasting the number of days with ice melt. V. P. Kob-

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leva on a method for the calculation of the volume of rain water supply in floods. G. M. Kozlovskiy (GOMS of the Azerbaydzhanskaya SSR) on the use of GOMS of the atmosphere circulation in hydrological forecasts. Ye. A. Kozlovskiy (GOMS of the Armanakskaya SSR M. V. Shadrin) spoke on the characteristics of the formation of the water supply of the rivers of Armenia. A. A. Pogreban (GOMS of the Armanakskaya SSR) pointed to the special role of the snow cover of the belt between 1800 and 2400 m in the formation of the water supply for spring floods on the rivers of Armenia. V. P. Kozlovskiy spoke on the method of forecasting easily accessible humidity of the soil below grain cultures. F. P. Stolygin and Sh. I. Tsutsiskiridze spoke on the periods set for the opening of vineyards in Transcaucasia. G. M. Kozlovskiy, L. A. Epimashvili (GOMS of the Armanakskaya SSR), and V. P. Kozlovskiy spoke on the microclimatic conditions of the Lazavskiy massif in the Armanakskaya SSR. In all, 27 papers were read.

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SOV/50-59-5-6/22

3(7)

AUTHORS: Tsomaya, V. Sh., Kisin, I. M.

TITLE: Retrogression of Glaciers in the Central and East Caucasus During the Last 90 - 100 Years (Ob otstupanii lednikov Tsentral'nogo i Vostochnogo Kavkaza za posledniye 90 - 100 let)

PERIODICAL: Meteorologiya i gidrologiya, 1959, Nr 5, pp 32 - 37 (USSR)

ABSTRACT: The present glaciers of the Caucasus are in the regressive phase of their evolution. The character of retrogression is investigated here following the example of the tongues of the Kazbegi Glacier, the glacier of the Bogos Mountain Range, and the Bazar-dyuzyi Glacier. Stationary and expeditionary investigations on glaciology were carried out there from 1951 to 1958. Data for the time from 1860 up to date are put forward here. They show that since the last maximum ice formation in the Caucasus most glaciers have been retreating continuously. Total retrogression is 350 - 530 m, the maximum and minimum for individual glaciers amounting to 1065 and 220 m, respectively. Annual average retrogression is 4-7 m a year, the maximum 15 - 22 m a year. Retrogression is irregular. Two stages of retrogression can be distinguished: from 1860 - 1920 with 6 - 7 m/year, and from 1920 -

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Retrogression of Glaciers in the Central and East
Caucasus During the Last 90 - 100 Years

SOV/50-59-5-6/22

1958 with 20 - 25 m/year. The Gergeti and the South-east
Glaciers have high retrogression speeds (20-25 m/year). In 1954,
the speed was even 34 m/year. An analysis of the data shows that
at present the retrogression of glaciers is primarily caused
by the melting of ice. Under present conditions, the thickness
of ice and the degree of impurity by moraines on the surface of
the glacier tongues are the main factors influencing the retro-
gression of glaciers. The thicker the ice and the higher the
impurity of the tongues are, the smaller is the annual average
speed of retrogression of glaciers. There are 3 figures, 4
tables and 13 Soviet references.

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